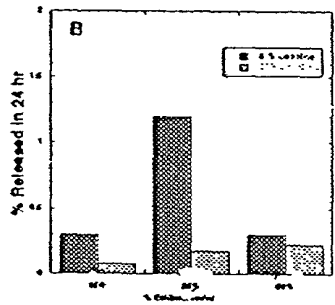
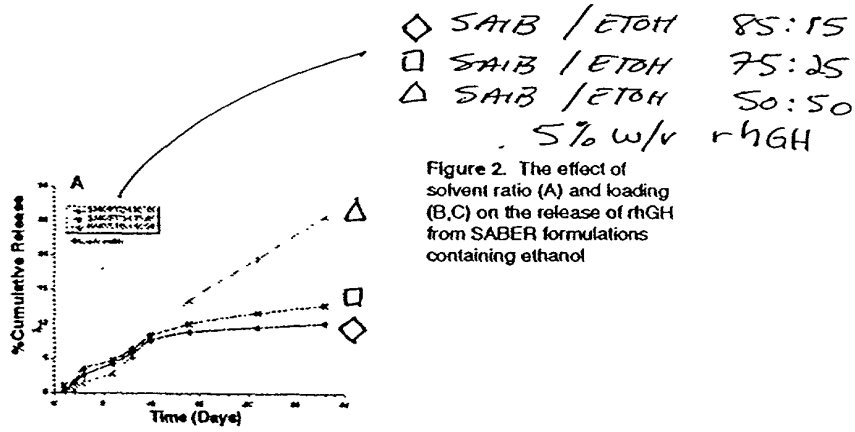
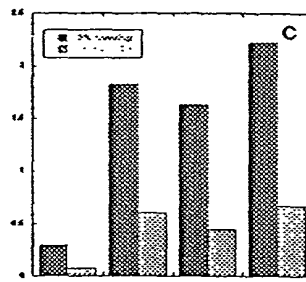


Figure 1



↓ 15%  
 ↓ 25%  
 ↓ 50%  
 70 Ethanol (w/w)



↓  
 ↓  
 ↓  
 ↓  
 ETHANOL  
 Benzate (30%)  
 Pr carbonate (30%)  
 Methylol (50%)

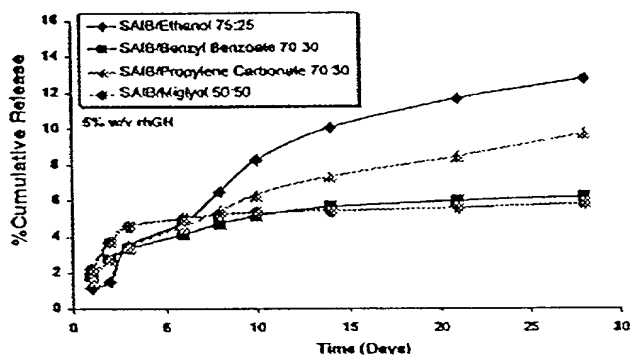
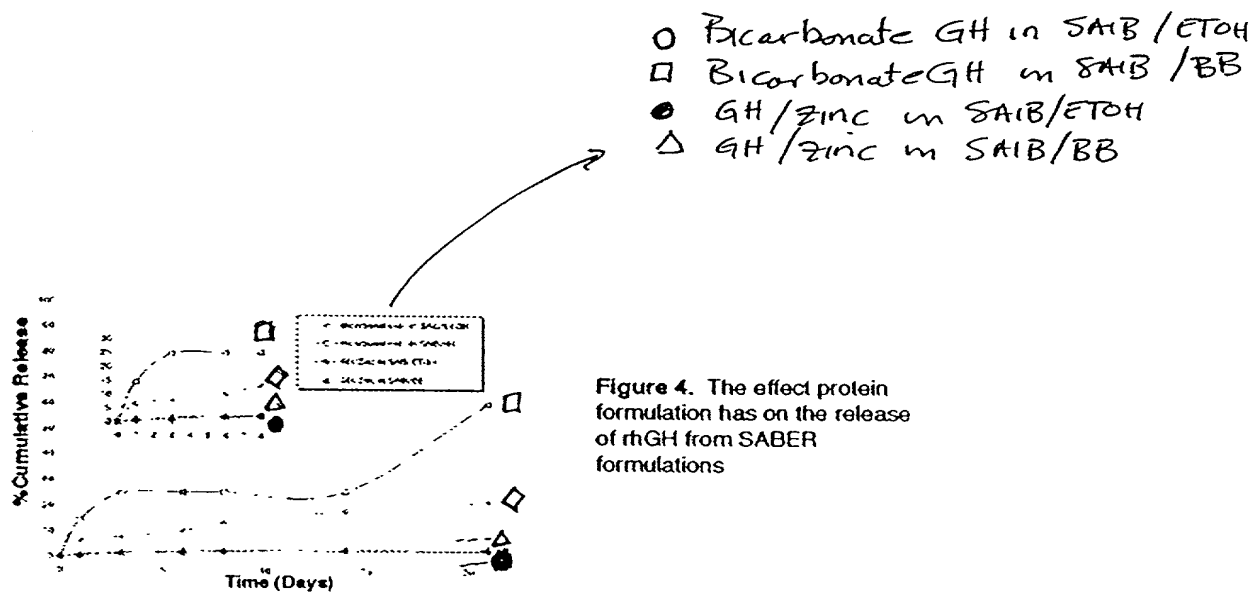
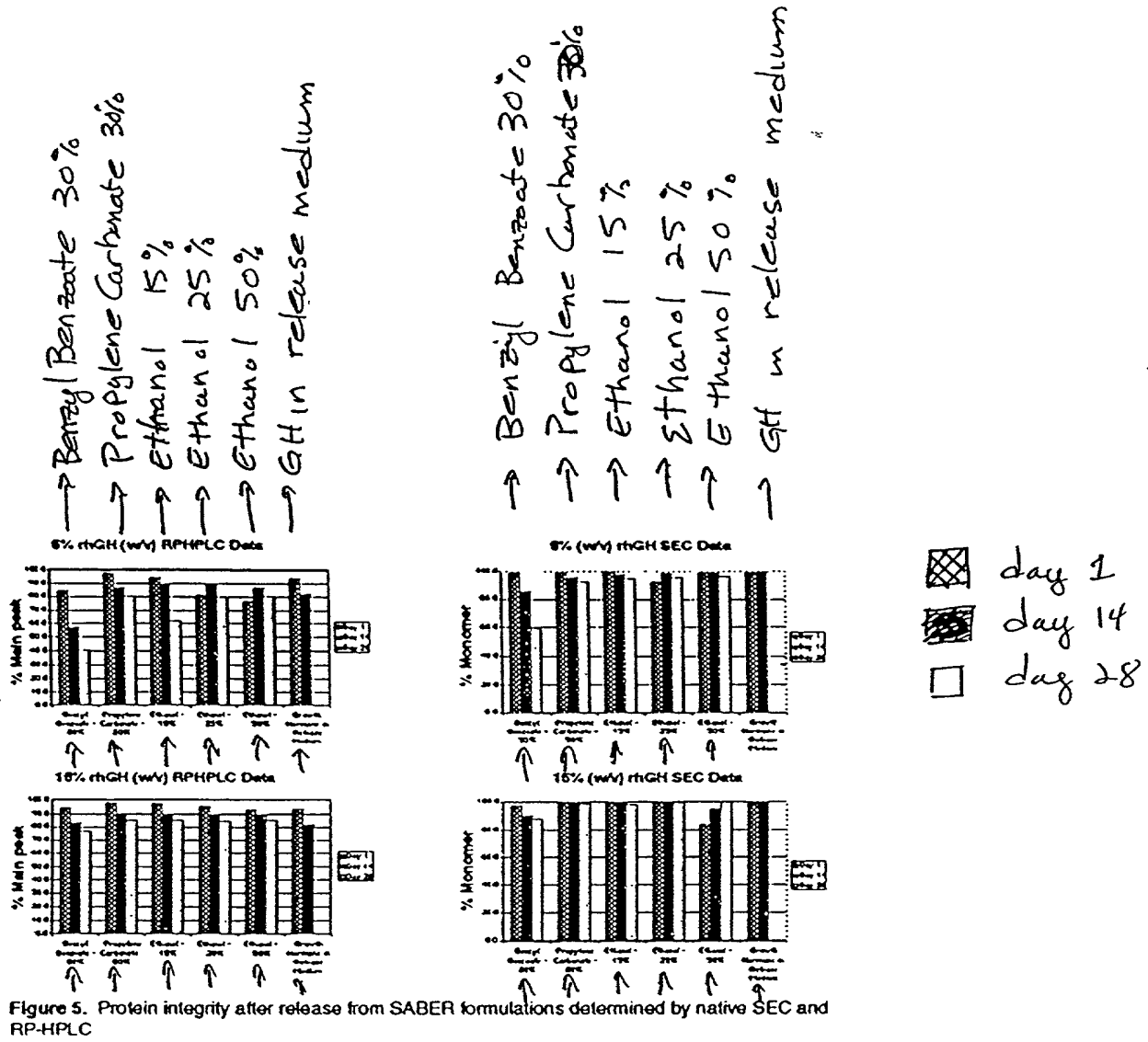


Figure 3. The effect solvent on the release of rhGH from SABER formulations



SAIB:Solvent	Growth Hormone Formulation	% Release over 24 hours	% Daily Release 0-21 days
Ethanol (85:15)	Zinc	0.53	0.10
Ethanol (85:15)	Bicarbonate	6.53	0.73
Benzyl Benzoate (70:30)	Zinc	1.06	0.12
Benzyl Benzoate (70:30)	Bicarbonate	14.64	2.16



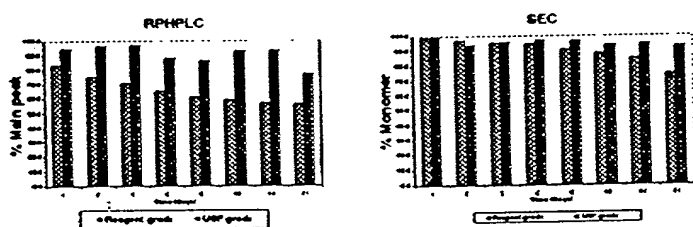


Figure 6. Effect of solvent quality on stability of rhGH released from SABER formulations containing reagent and USP grade benzyl benzoate

 Reagent grade  
 USP grade

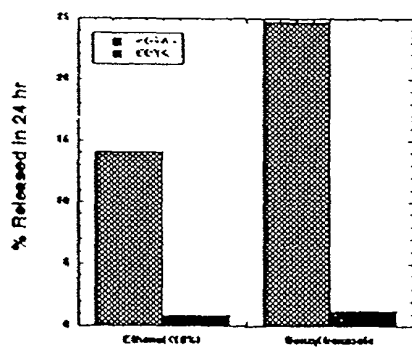


Figure 7. The effect a chelating agent (EDTA) has on the release of zinc complexed rhGH from SABER formulations

ETHANOL(5%) Benzyl benzoate



EDTA +



EDTA -

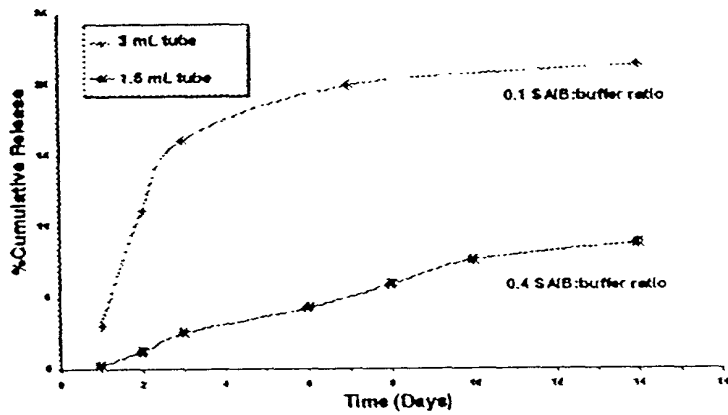


Figure 8. The effect buffer exposed surface area and SABER:buffer ratio have on the release rhGH from SABER formulations



- PLGA microspheres
- Benzyl benzoate (30%)
- ▲ Benzyl alcohol (30%)

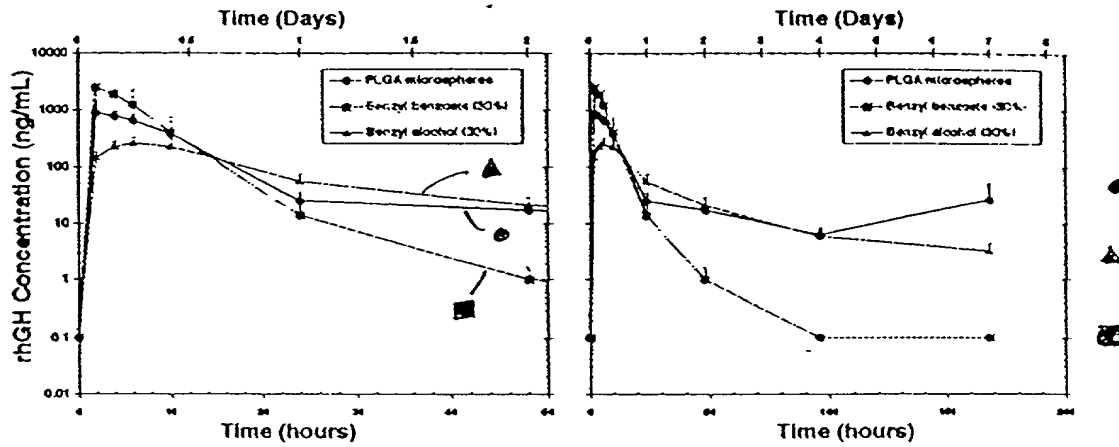


Figure 9. rhGH serum levels after SC administration of rhGH SABER formulations (SD rats, 6/group, 15 mg/Kg)